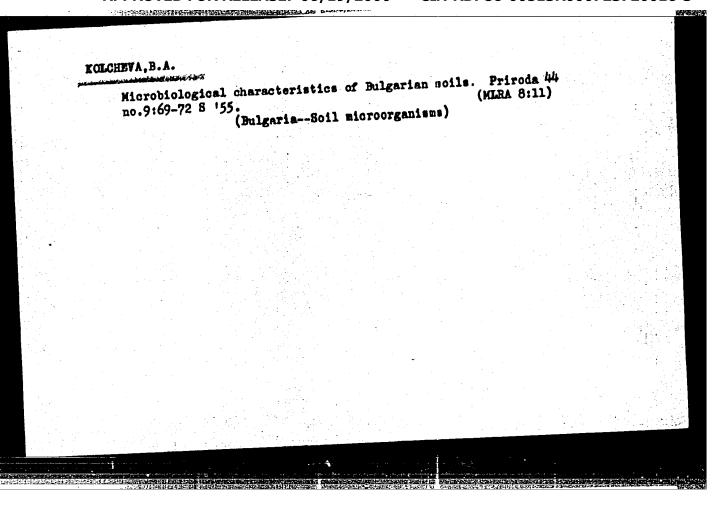


"APPROVED FOR RELEASE: 06/19/2000

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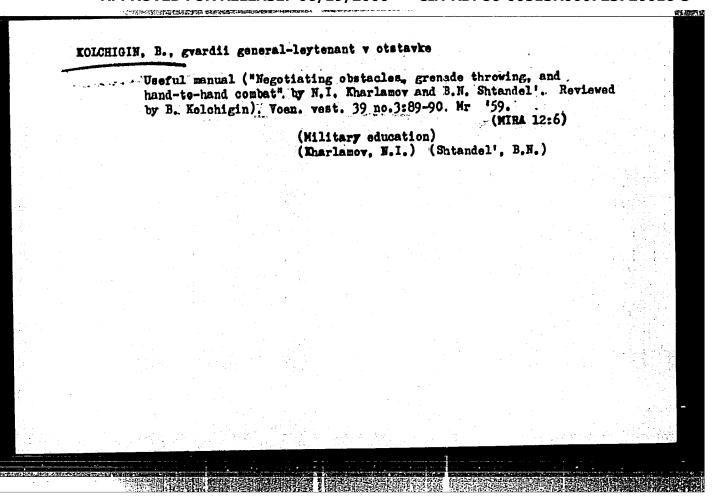


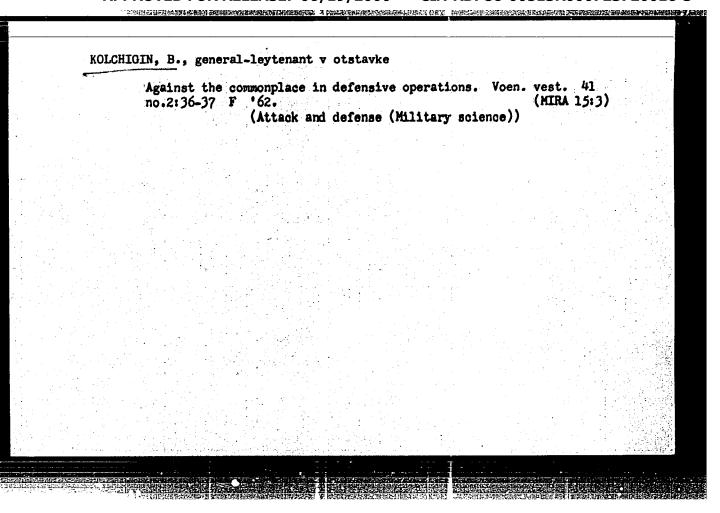
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KOLICHEVSKAYA, YE. P.

KOL'CHEVSKAYA, YE. P.: "The planning, organization, and execution of practical excursions to study physicsumder the conditions existing in a large industrial city." Moscow, 1955. Min Education RSFSR. Moscow Oblast Pedagogical Inst. (Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis! No. 46, 12 November 1955. Moscow.





	LENKO, A.A., starshiy prepodavatel' KOICHIGIN, N.I.	
	Forest workers should come under the general standard norms of labor laws. Okhr. truda i sots. strakh. 4 no.6:30-31 Je '61. (MIRA 14:7)	
	1. Bryanskiy tekhnologicheskiy institut, vneshtatnyy tekhni- cheskiy inspektor oblsoveta profsoyuzov (for Moskalenko). 2. Predsedatel Bryanskogo obkoma profsoyuza rabochikh lesnoy, bumazhnoy i derevoobrabatyvayushchey promyshlenmosti (for Kolchigin).	
•	(Forest workers)	
	(Labor laws and legislation)	
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BOK, Ivan Ivanovich, akad.; LAVROV, V.V., kand. geologo-mineralogicheskikh mauk, otv. red.; KOLCHOINA, L.Ya., red.; ROROKINA, Z.P., tekhn. red.

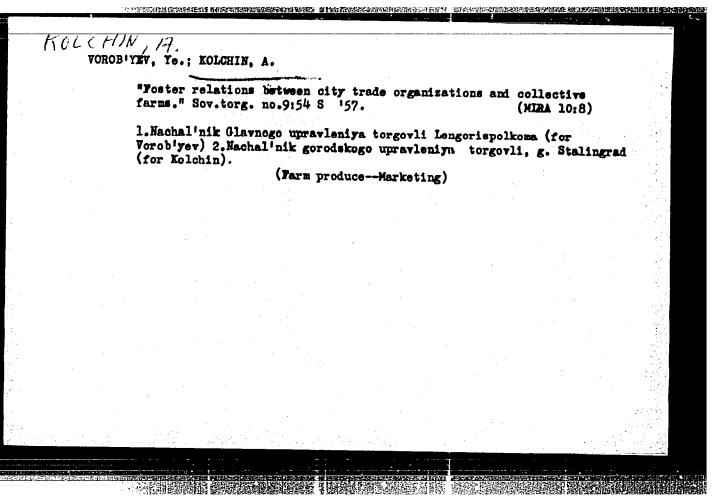
[Observations of mineral deposits during geological prospecting; practical recommendations] Habliudeniia po polesnym iskopaesnym pri geologicheskikh issledovaniiakh; metodicheskie rekomendatsii.

Alma-Atw. Isd-vo Akad. nauk hasakhakoi SSR, 1957. 53 p. (MIRA 11:12)

1. Akademiya nauk KasSSR (Tor Bok).

(Prospecting)

KOLCHIN, A	. and others.	· · · · · · · · · · · · · · · · · · ·					
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Early spri	ng work on the	apiary. Pch	Plovodstvo N	0. 2, 1952.			
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9. Monthly	List of Russia	an Accessions.	Library of	Congress	Жа у	195 % Uncl.	
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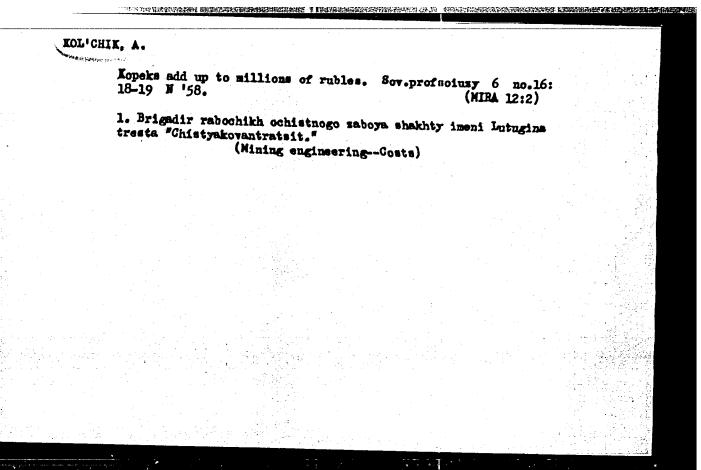


1. Shakhta imeni Lutugina, Kombinata Stalinugol'. (MIRA 13:10) (MIRA 13:10)	Matter of nation-wide importance. Mast.ugl. 9 no.10:5-6 0'60.
	1. Shakhta imeni Lutugina. Kombinata Stalinggol!
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KOLCHIN, A,; KOMAROV, V., mekhanik; ARENDT, G.

Where is the new ER-10 excavator? Stroi. truboprov. 7 no.4:25
Ap '62. (MIRA 15:5)

1. Nachal'nik stroitel'nogo uchastka No.6 tresta
Soyusprovodmekhanizatsiya (for Kolchin). 2. Nachal'nik
spetsial'nogo konstruktorskogo byuro Gazstroymashina (for
Arendt). (Excavating machinery)



KOL'CHIK, A.A., brigadir ochistnogo saboya; GUSHV, V.I.; KLIMOVITSKII, I.I.;

Reducing coal mining costs is a most important task for the national economy. Ugol' 33 no.8:18-21 Ag '58. (MIRA 12:1)

1. Shakhta imeni Lutugina (for Kol'chik). 2. Hachal'nik shakhty imeni Lutugina. (for Gusev). 3. Hachal'nik uchastta Ho.4 shakhty imeni Lutugina (for Klimovitskiy). 4. Machal'nik otdela organizatsii truda shakhty imeni Lutugina (for Sizov).

(Coal mines and mining--Costs)

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KOL'CHIK, A., Geory Sotsialisticheskogo Truda; SHAFIKOV, Kh.;

KOLESOV, O.; POYMANOV, D.

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The program of the party is the people's bunner. Sov.shakht. 10 no.9:4-5 S '61. (MIRA 14:8)

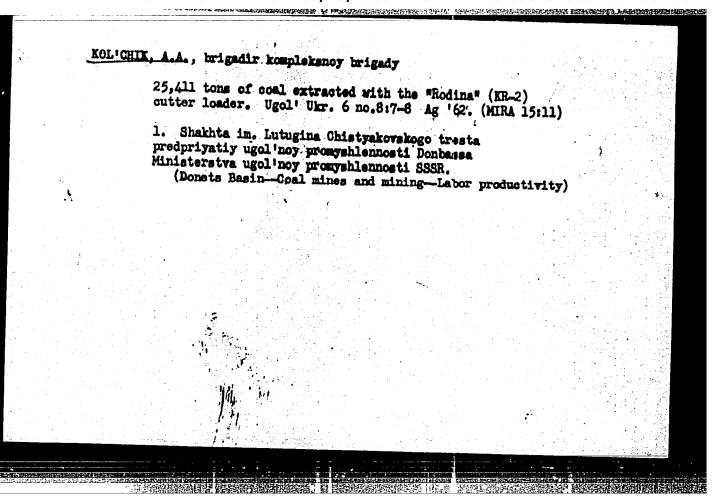
1. Brigadir shakhty imeni Lutugina tresta Chistyakovantratsit (for Kol'chik). 2. Rukovoditel' kombaynovoy brigady uchastka kommunisticheskogo truda shakhty No.37 komtdnata Karagandaugol' (for Shafikov). 3. Nachal'nik shakhty kommunisticheskogo truda "Kommunist-Novaya" v Donbasse (for Kolesov). 4. Zamestitel' sekretarya partorganisatsii shakhty No.29 kombinata Vorkutugol' (for Poymanov).

(Coal mines and mining-Labor productivity)

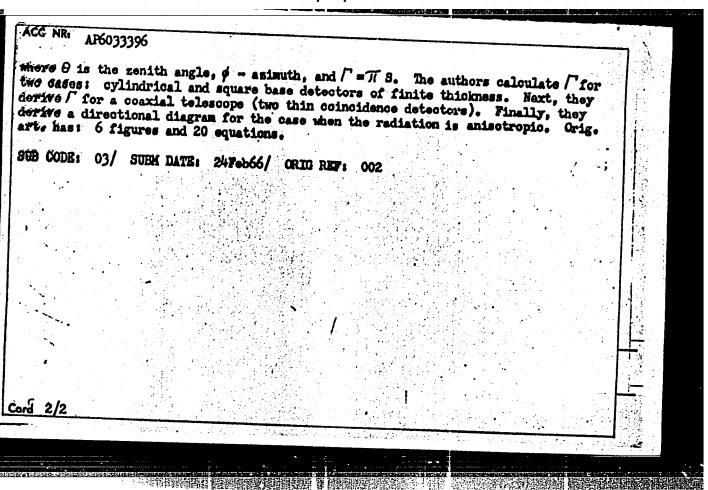
ZOLOTUKHA, N.I.; KOL'CHIK, A.A., brigadir kompleksnoy grigady, Geroy Sotsialisticheskogo Truda

Reached a monthly output of 25,411 tons of coal with the KR-2 cutter loader. Ugol' 37 no.9:11-14 S '62. (MIRA 15:9)

1. Shakhta imeni Lutugina tresta Chistyakovantratsit
Donetskogo sovet narodnogo khozyaystva. 2. Nachal'nik
shakhty imeni Lutugina tresta Chistyakovantratsit
Donetskogo soveta narodnogo khozyaystva (for Zolotukha).
(Donets Basin—Coal mines and mining—Labor productivity)
(Coal mining machinery)



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KIGELEV, B.P.; BALASHOV, V.L.; KOLCHIN, A.A.; LEBEDEV, V.V.

Separation of barium and strontium by the exchange method in the system amalgam - solutions. Radiokhimiin 6 no. 1:114-117 '64. (MIRA 17:6)

KOLCHIN, A.I.

Stal'nye Kanaty: eksperimental'nye issledovaniia, raschet i eksploatatsiia. Koskva, Mashgiz, 1950. 102 p. illus.

Bibliography: p. (104)

Steel ropes; experimental research, calculation and operation.

DLC: TA492. W8K6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of of Congress, 1953.

KOICHIN, A.I., dotsent, kandidat tekhnicheskikh nauk,

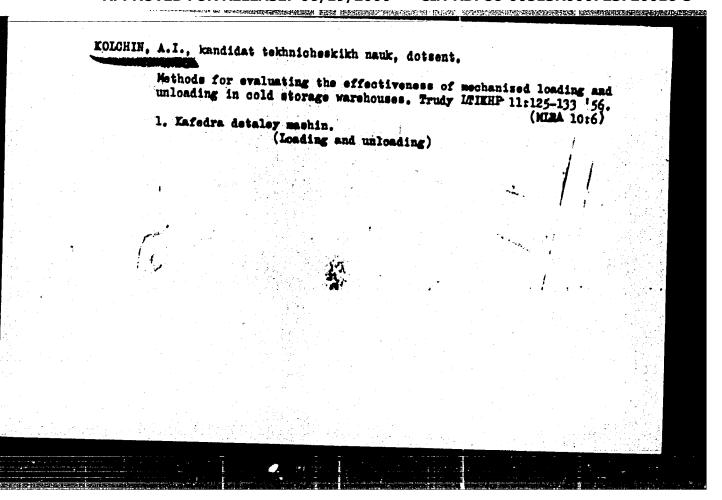
Mechanised loading and unloading in cold storage warehouses. Trudy

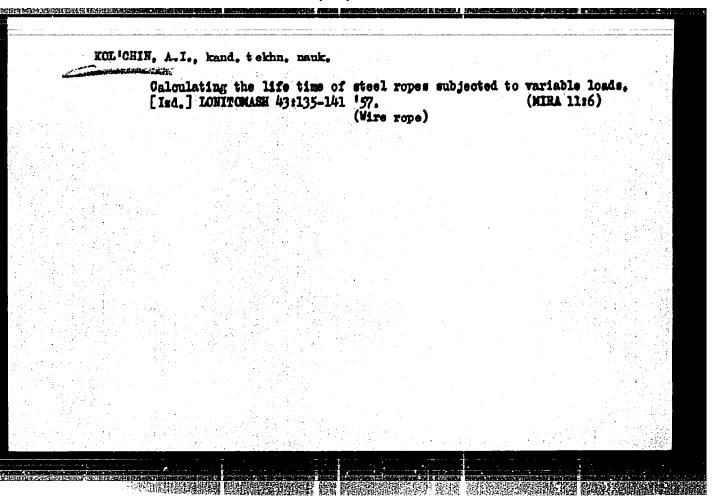
LEMEN 10:85-100 '56, (MEMA 10:6)

1. Leningradekly tekhnologicheskiy institut kholodil'noy promyshlennosti.

(Loading and unloading) (Cold storage warehouses)

(Industrial power trucks)





EXOLCHIN. Andrey Iosafovich; LYUDSKOV, B.P., red.; BABICHEVA, V.V., tekhn.red.

[Mechanisation of loading and unloading operations in cold storage warehouses] Mekhanisatsiia pogrusochno-rasgrusochnykh rabot na kholodii nikakh. Moskva, Gos. isd-vo torg. lit-ry, 1958. 219 p.

(Loading and unloading)

(Loading and unloading)

25180 8/056/61/040/006/001/031

24,7700

Kolchin, A. M., Mikhaylov, Yu. G., Reynov, N. M.,

Rumyantsova, A. V., Smirnov. A. P., Totubalin, V. N.

TITLE:

AUTHORS:

Investigation of the destruction of superconductivity in

thin tin films

PERIODICAL:

Zhurnal exsperimental noy i teoreticheskoy fiziki, v. 40,

no. 6, 1961, 1543 - 1550

TEXT: The possibilities of practically applying/superconduction effects (cf. Proc. IRE, 48, 1233 and 1395, 1960) make it of interest to study the destruction of the superconductivity of thin metal films as caused by current. Subject to this work was to elucidate the regularities of the destruction of superconductivity by a magnetic field or a current, as well as to describe the laws governing the return of the film to the superconducting state on removal of the field (current) in a larger temperature interval. The investigations were limited to films of thicknesses (1 - 8). 10 cm under the action of current pulses of different shapes and lengths and at temperatures near the critical one. The results of the measurements have

25180 8/056/61/040/006/001/031 B102/B214

Investigation of ...

been presented earlier to the Seventh All - Union Conference on Low Temperature Physics in Khar'kov (June 1960). The films were prepared by vacuum sputtering (10-0mm Hg). Fig. 1 shows the appearance of such a sample with the current and voltage contacts. The backing was glass or mica, chemically purified and heated in vacuo. The film thickness was determined by weighing; the breadths of the films were 0.10 - 0.25 mm. The resistances of the films amounted to 30 + 130 ohms at room temperature. Pirect current experiments were done with a potentiometer circuit with by recording potentiometers of the types \$\int 0.9M(EPP-C9M)\$ and \$\int 0.11M\) the transition of the sample to (from) the superconducting graph of the type \$\int 0.1 (ENO-1)\$ which allows to observe and photograph the volt-ampere characteristics. Generators of the types \$\int (C-2 (GIS-2))\$ and pulsed current (duration of the pulse 0.1 - 10 sec). The current and volt-\$\int 0.2M (GI-3M)\$ were used to study the destruction of superconductivity by age were recorded simultaneously by a double-ray oscilloscope of the type of 1 - 6 ohms and resistivity 0.4 - 1\text{\text{\text{phy}}m/m/m} were investigated.

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Investigation of ...

The critical temperature of these films for a measuring current of 40 µa lay between 3.75 and 3.85 K and was therefore higher than for massive tin. The experiments showed that with increasing current the resistance increased first very slowly, and for currents over 10 ma more rapidly. The transition of the sample from the superconducting to the normal state on increasing current was investigated by taking measurements with triangular pulses. The influence of thermal effects on the transition could also be studied in this way. It was found that the sample was heated even by a rise and fall in the pulse of 0.1 µsec each. This heating is attributed to the appearance of a hysteresis on transition from normal to the superconducting state. Fig. 8 shows a volt - ampere characteristic (pulse growth 0.5 µsec, fall 0.1 µsec, sequence 50 cps, I = 150 ma). Further measurements were made by rectangular pulses of 0.1 at 10 µsec (front 0.05 - 0.15 µsec). Fig. 10 shows an oscillogram of the transitions of a sample from the superconducting to the normal state for a pulse length of 2 µsec (upper curve: current, lower: voltage). The following results were obtained from the studies: The regularities found hold for films of such thicknesses for which the current destroying the superconductivity depends only slightly on the thickness.

Card 3/5

25180 \$/056/61/040/006/001/031 B102/B214

Investigation of ...

For thinner samples, other regularities are to be expected. Under the action of very short pulses the transition is greatly affected by Joulean heat and heat caused by Foucault currents. Besides the hysteresis of thermal effects on transition from the normal state to the superconducting state, there is also observed a hysteresis which is attributed to the existence of superconducting domains in the normal phase. The duration of the spontaneous transition to the superconducting state is considerably smaller than that of the destruction of the intermediate state arising when the superconducting state is destroyed by current. The duration of transition from the superconducting to the normal state depends on the amplitude of the current in the pulse. For sufficiently large amplitudes, the transition time is t < 5.10 sec. A. A. Galkin is mentioned. There are 12 figures and 10 references: 4 Sovietbloc and 6 non-Soviet-bloc. The most important references to English-language publications read as follows: J. W. Bremer, V. L. Newhouse. Phys. Rev. 116, 309, 1959 and Phys.Rev. Lett. 1, 282, 1958; C. R. Smallman et al. Proc. IRE, <u>48</u>, 1562, 1960.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Institute of Physics and Technology of the Academy of Sciences, USSR)

Card 4/5

KOLCHIN, A.M.; KRIVKO, N.I.; REYNOV, N.M.

Experimental study of a superconducting Nb-Zr alloy at the Disquency 9250 Mo. Zhur. eksp. 1 teor. fis. 44 no.1:53-56 Ja 163.

(MIRA 16:5)

1. Fisiko-tekhnicheskiy institut imehi A.F. Ioffe AN SSSR.

(Niobium-Zirconium alloys)

PANCHENKOV, G.M.; KOLOHIN, A.M.; AKISHIN, P.A.

Mass spectrometric study of the thermionic emission of cesium with various emitters. Fig. tver. tela 1 no.6:919-922 Je 159. (MIRA 12:10)

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lemonosova. (Thermoionic emission)

88352

5.5310(1273,1282,1160)

B/076/60/034/009/040/041xx B020/B056

AUTHORS:

Kolchin, A. M., Malakhov, V. F., Panchenkov, G. M.

TITLE:

Mass Spectrometric Analysis of Boron Isotopes by the

Thermionic Emission Method

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,

pp. 2124-2125

TEXT: Mention is made in publications that the method mentioned in the title may be used for the isotopic analysis of boron, and offers the following advantages as compared to other methods: 1) Low material consumption, 2) no "memory" effect, 3) a small number of peaks left over due to impurities, and 4) high probability that no secondary processes act upon the analysis results. For the practical use of the method mentioned in the title, the ion current, which, according to published data amounted to 10-13 a, had to be measured accurately by means of series mass spectrometers. To solve the problem, the intensity of the ion current must be increased to 10-12 a, and its stability must be improved. All measurements were made by means of the mass spectrometer MC-4 (MS-4) with a thermionic source. For heating, 20 mm long, Card 1/3

88352

Mass Spectrometric Analysis of Boron Isotopes S/076/60/034/009/040/041XX by the Thermionic Emission Method B020/B056

0.8-1.0 mm wide, and 0.05 - 0.1 mm thick bands were used. Borate, metaborate, and a borate-boroxide mixture served as emitters, the first compound being the most favorable one. The intensity of the ion current increases with the reducing properties of the band material (Pt, Ni, W, Ta). From an annealed platinum band, no Na₂BO₂⁺ ions were emitted. The ion current emitted from the surface of annealed Ni-19 W-, and Ta-bands had an intensity of the order of 6.10-14 - 5.10-19 a. There-

Ta-bands had an intensity of the order of $6\cdot 10^{-14}$ = $5\cdot 10^{-19}$ a. Therefore, the attempt was made to increase the intensity of the ion current by addition of pulverulent reduction agents (Al, Mg), of which magnesium was found to be the most effective. When using a mixture of borate powder as emitter, a sufficiently intensive (of the order

of 10⁻¹¹ a), constant ion current was obtained, permitting the analysis of boron isotopes with an accuracy of 1%. The optimum working temperature was 700-750°C. The analysis results are given in Table 1. In calculation, no correction was introduced for the content of heavy oxygen isotopes. To explain the "memory" effect, analyses of specimens with highly different isotope compositions were carried out successively on one day. The results are given in Table 2. In contrast to the results Card 2/3

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Mass Spectrometric Analysis of Boron Isotopes by the Thermionic Emission Method

S/076/60/034/009/040/041 XX B020/B056

obtained by V. Shyutse, no effect of the fractioning of isotopes was found either in the analysis or after further 4 hours. The results are given in Table 3, from which it follows that the fluctuations of the isotope ratio B11/B10 decrease with time, which is due to the improved stability of the ion current of Na₂B0⁺₂. It is therefore recommended to make the analysis 30 minutes after switching on the necessary ion current. There are 3 tables and 4 references; 3 Soviet and 1 US.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

March 22, 1960

Card 3/3

9.3120

AUTHORS:

Panchenkov, G. M., Kolchin,

68996 8/020/60/131/02/042/071 B004/B007

TITLE:

The Part Played by Chemical Reactions in

Thermionic Emission 1

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 357 - 359

(USSR)

ABSTRACT:

The authors give a report on their experiments concerning the interaction of an ion-emitter with a metal base acting as a heater. The investigations were carried out by means of a mass spectrometer of the type MS-4. The ion exchanger Al203.48102.xH20,

which was impregnated with a CsCl solution, was used as emitter. Applied to a carefully cleaned platinum base in form of a thin coating, no ions were emitted by the emitter. Applied onto a tantalum base, it emitted Cs+-ions. On a platinum base, which was, however, mixed with tantalum powder, the emitter gave the same ion current as on the tantalum base. The following investigations were carried out for the purpose of determining the influence of the chemical activity exerted by the metal powder admixed to the emitter upon the ion current. The effect of Cu, W, Ta, Zr, Al, and graphite was investigated. The ion current inoreased with the activity of the metal. Graphite powder yielded

Card 1/3

The Part Played by Chemical Reactions in Thermionic Emission

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the same emission as tantalum. Also platinum, which was repeatedly exposed to the flame of a gas burner, may cause an ion current, probably because of the absorption of impurities, chiefly of carbon. Further experiments concerned the emission of Cs+ during heating up to 1500° without addition of metals to the emitter, the following temperature decrease to 600° also resulting in an ion current, probably as a result of the thermal dissociation of the emitter by the previous high temperature. Addition of MnO, led to an initially considerable decrease of the ion current, which increased, however, again in the further course of the experiment. From all these results, the authors draw conclusions as to a chemical interaction between emitter and base, the formation of Cs-atoms, and their ionization on the surface. They carry out a calculation of ΔZ_{T}^{0} and show in figure 1 that the logarithm of the ion current of Cs^+ at 655° depends linearly on Δz_1^0 . They refer to papers by M. A. Yeremeyev (Refs 1,2). Finally, the authors thank Z. F. Kolchina for her great help in this investigation. There are 1 figure and 5 references, 4 of which are Soviet.

Card 2/3

68996

The Part Played by Chemical Reactions in Thermionic

Emission

8/020/60/131/02/042/071 B004/B007

ASSOCIATION: Koskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

November 21, 1959, by A. V. Topchiyev, Academician

SUBMITTED:

November 4, 1959

Card 3/3

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KOLCHIN, A.M., FANCHENKOV, G.M., MALAKHOV, V.F. AND STEMY, YA.

"Die massenspektrometrische Isotopenanmalyse an Bor auf der Grundlage der Thermionem-Emmission."

Report presented at the 2nd Conf. On Stable Isotopes
East German Academy of Sciences, Inst. of Applied Physical Material
Leipzig, GDR 30 ct-4 Nov 1961.

AND PERSONAL PROPERTY AND PERSONS ASSESSED.	.; PANCHENKOV, G.	and Dalman Albania, and Albania and Albania		
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ARSHAKUNI, R. G.; KOLCHIN, A. M.; PANCHENKOV, G. M.

Isotopic analysis of silicon with the aid of a mass spectrometer.

Zhur. fis. khim. 37 no. 3:677-679 Mr '63. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet.

<u> </u>	大型公司工程的证据的数据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据
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TITLE:	Arshakuni, R. G., Kolchin, A. M., Panchenkov, G. M. 5
PERIODICAL:	Zhurnal fizicheskoy khimii, V. 37, No. 4, 1953, 893-896
has been der a vaporizer 0.3-0.5 mill acts with the spectrum whi The expedien and an analy	A mass spectroscopic method of the isotopic inalysis of germanium veloped. For the analysis the complex salt BeG: F6 which decomposes in is used. The amount of substance which F7 used in T6 analysis is ligrams of BaGeF6, which is not a minimum quantity. The BaGeF6 interme material of the vaporizer with the formation of GeF2. The mass ich is formed upon the ionization of the molecules of GeF2 is studied. May of an isotopic analysis of germanium for pasks of GeFt ions is shown wais of a sample of metallic germanium is performed. An analysis is domerrors in measurement. There are 3 figures and 1 table. Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow. State University imeni M. V. Lomonosov), Moscow.
SUBMITTED: Card 1/1	May 22, 1962

MATSASHEK, F.; KOLCHIN, A.M.; PANCHENKOV, G.M.

Mass spectrometric isotoric analysis of silicon. Vest. Mosk. un.
Ser. 2: Khim. 19 no.5:57-6! G-0 '64.

(MIRA 17:11)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

"APPROVED FOR RELEASE: 06/19/2000 C

CIA-RDP86-00513R000723720016-3

ACC NR. APOOL3508

UR/0120/66/000/002/0099/0101

AUTHOR: Kolchin, A.M.; Kolesnikov, B.Ya.

ORG: Chemistry Department, MGU (Khimicheskiy fakultet MGU)

TITLE: Mass-spectrometric ion detector of the scintillation type

SOURCE: Pribory i tekhnika eksperimenta, no 2, 1966, 99-101

TOPIC TAGS: ion, ion beam, ion detector, scintillation ion detector, mass spectromess scopy

mass spectrometer sensor, plastic seal, mass spectrometer.

ABSTRACT: The paper describes a very sensitive detector of ions for use in the mass spectrometer MS-4. It fills the need for the registration of very weak ion beams, equivalent to ion currents of 10^{-15} = 10^{-19} amps. The detector is based upon the scintillation phenomenon, aided by an ion/electron converter. Sensitivities three orders of magnitude higher than those of the usual electrometric concept have been obtained. This feature is useful for calibration and is necessary for measuring ion currents higher than 10^{-13} amps. The conceptual schematic of the detector is shown in Fig. 1. Here, 1 is the final entrance slit of the mass spectrometer. If the emitter of secondary electrons, 2, is grounded, the ion beam proceeds along a line trajectory to enter the Faraday chamber 4 of the conventional registration terminal. With minus 14 ky

Card 1/2

UDC: 621,384.8

Card 2/2

ACC NR: AP6013508 at the emitter, the ions are accelerated toward it, knocking off secondary electrons. The same field accelerates the electrons toward the (grounded) fluorescent film, 3, deposited on the glass plate, 5, in the field of view of the photoelectric multiplier 6, which delivers the registration signal. The system is intrinsically stable to the extent that fluctuation sources are essentially those of the power supplies. The minimum observed registered signal was 2.10-18 amps. As an ion counter, the detector is linear from several ion/sec to 105 ion/sec. The discrimination level is adjusted so that at a a control loss of over 1%, the background would not exceed 10 - 15 pulses per second. Conceptual schematic The developed design, compatible as an attachment to of the scintillation type ion the MS-4 mass spectrometer, is described in detail. Vacuum seals were made of Ftoroplast-4 (Teflon) and showed a reliable vacuum level of 10⁻⁷ torr as well as satisfactory insulation. Authors thank G.M Pandetector. chenkov and L.N. Gorokhov for their constant interest in this work. Orig. art. has 2 figures. SUB CODE: ر 20 SUBM DATE: 20Jan65 / ORIG REP: OTH REF: 004

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723720016-3"

MINING WELLOW OF THE SAME OF

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8/127/60/000/012/002/005 B012/B054

18.1150

AUTHORS:

Kolchin, A. V. and Vlasov, A. I. (Moscow)

TITLE:

New hard metals for the armoring of chisels for cable-tool

drilling :

PERIODICAL: Gornyy shurnal, no. 12, 1960, 29-30

TEXT: The Institutes VSEGEI (All-Union Scientific Research Institute of Geology) and TaNIGRI (Central Scientific Research Institute of Mine Prospecting) tested chisels with welded-on sintered alloys of the Stalinite type and of T3 (T3) Relite. The welded-on layers, however, oracked and became brittle when drilling in hard rock. In 1958-1959, the Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov (VNIITS) (All-Union Scientific Research Institute of Hard Alloys (VNIITS)) together with the Magnitogorskiy shelesnyy rudnik (Magnitogorsk Iron Mine) and the Magnitogorskiy gorno-metallurgicheskiy institut (Magnitogorsk Institute of Mining and Metallurgy) developed new welding alloys. Sintered tube electrodes of the types T 6 (T 6) and T 30 (T 30), and powder-charged steel tubes (8 mm in diameter and 400 mm long) were produced. The weight

Card 1/3

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New hard metals for the armoring ...

ratio charge tube was 0.75 : 1. A protective casing permitted the welding on a.c. and d.c. apparatus, and protects the individual components of the charge from oxidation and burning out. These experimental electrodes were tested in the mines of the Moril'skiy kombinat (Noril'sk Combine) and Magnitogorskiy kombinat (Magnitogorsk Combine). The T6 alloy was welded on the cutting edges and lateral surfaces of the chisel (at 780-820°C) immediately after the forging of the chisel. The layer welded-on was 2-4 mm thick. The T30 electrodes were welded on the cold, worn-out chisel on the spots of maximum wear. For an appropriate shaping, the chisel was then heated to 1150-1200 C, directed, and the welded-on layer was forged together with the chisel. In the Magnitogorsk Mine, drilling was performed with an 1100-1450 kg boring tool in rock with a hardness of 1-15 according to Protod yakonov. In the mine of the Noril'sk Combine, the alloys Relite T3, T6, and T30 were tested on horseshoe chisels 200 mm in diameter. Relite T3 and T6 were welded onto the chisels immediately after forging. Results showed that the alloys T6 and T30 increased the resistance to wear of chisels in cable-tool drilling to the 1.5-2.5 fold, as compared with usual steel chisels. There are 2 tables and 2 Sovietbloc references.

Card 2/3

New hard metals for the armoring...

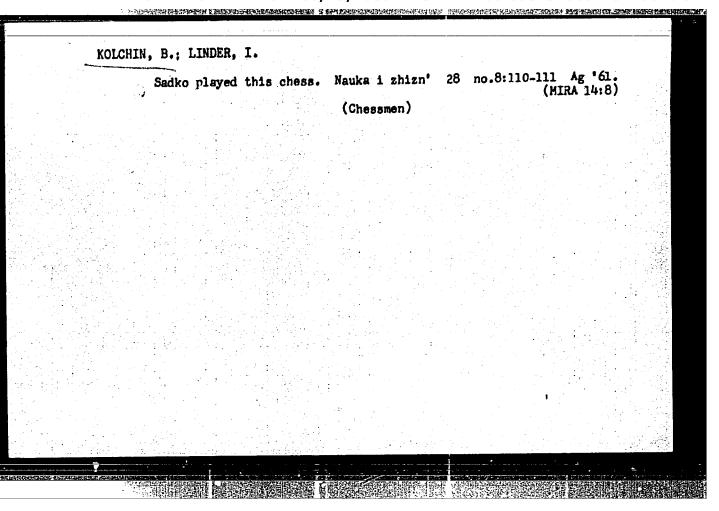
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ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov, Moskva (All-Union Scientific Research Institute of Hard Alloys, Moscow)

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KOICHIN, B. A.

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SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

KOLCHIN, B. A.		· · · · · · · · · · · · · · · · · · ·
Novgorod - Antiquities		
Excavations of ancient	Novgorod, Nauka i zhizn' 19 No. 4, 1952	
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9. Monthly List of Ru	ssian Accessions, Library of Congress, July	1953, Uncl.

EVTYUKHOVA, L. A.; Kolchin, B. A.

Archaeology - Methodology

Some methodological procedures in archaeological research in the U.S.S.R. Vest. AN SSSR, 22, No. 5, 1952.

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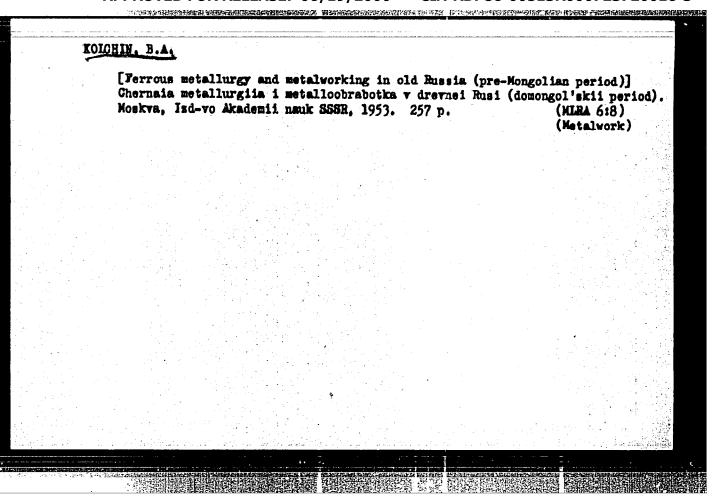
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723720016-3"

KOLCHIN, B.A.; ARTSIKHOVSKIY, A.V., doktor istoricheskikh nauk, professor,
Fortmannt; KOROLEV, A.V., kandidat tekhnicheskikh nauk, retsensent;
KOSTOMAROV, V.W., kandidat tekhnicheskikh nauk, redaktor.

[Metalworking techniques in ancient Russia] Tekhnika obrabotki metalla
v drevnei Busi. Moskva, Gos. nauchno-tekhn. isd-vo mashinostroit. i
sudostroit. lit-ry, 1953. 158 p.

(Metalwork)

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BRITKIN, A.S., professor; MOWGAYT, A.L., kandidat istoricheskikh nank.

A book on the history of Russian metallurgy. ("Forrous metallurgy and metal working in ancient Russia." B.A. Lolchin) Reviewed by A.S. Britkin, A.L. Mongait. Vest AN SSSR 24 no.5:103:106 My *54. (Metallurgy--History) (MEA 7:6)

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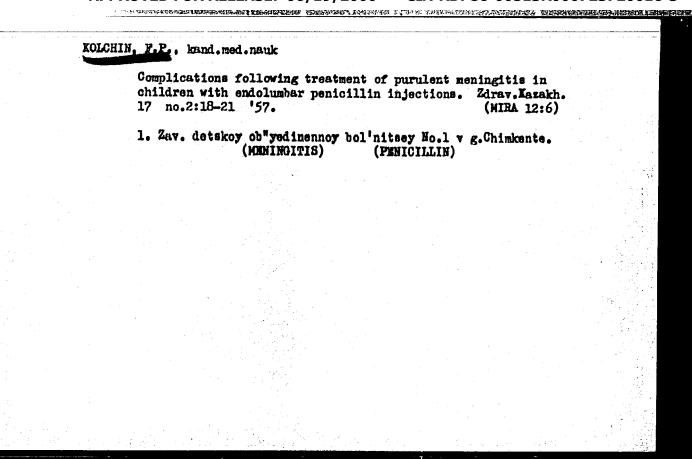
An ancient chronicle of the forest. Priroda 53 no.5:34-41
164. (MIRA 17:5)

1. Institut artheologii AN SSSR, Moskva.

TOTOBLE, T.P.

Clinical aspects of paratyphoid fever in infants. Zdrav.Kasekh. 16 no.10:18-22 '56. (MLRA 9:12)

1. Is detakey ob yedinenney bol nitsy no.1, g. Chimkenta. (PARATYPHOID FEVER)



Glehin, F.P.: Pan'kina, M.V.

Q fever in southern Easakhetan. Zdrav. Eazakh. 17 no.7:21
'57. (MIRA 12:6)

1. Is oblastnoy sanepidetantsii i detskoy ob"yedinennoy bol'nitsy Mo.l g. Chinkenta.

(EAZAKHSTAN—Q FEVER)

KOLCHII	7, F.P.
	Lamblia in children and their significance in intestinal pathology. Zdrav. Kasakh. 18 no.1:44-49 '58. (MIRA 13:7)
	1. Is detakoy ob ⁿ yedinennoy bol ¹ nitsy No. 1 g. Chimkenta. (GIARDIASIS)

USSR / Zooparasitology. Parasitic Protozoa. Flagellates.

: Ref Zhur - Biologiya, No 5, 1959, No. 19638 Abs Jour

: Kolohin, F. P. Author

: Not given Inst : Lamblia Intestinalis in Children and Its Title

Significance in Intestinal Pathology

: Zdravookhr. Kazakhstana, 1958, No 1, 44-49 Orig Pub

: Examination of 8393 children (town of Abstract Chikment), of the ages of up to 14 years, showed that the infection by Lamblia

intestinalis (L) in various groups of children attains 18.3-50.4%. The greatest percentage of those who had been infected is observed among children suffering from chronic dysentery (50.4%, and during the examination in a year's time - 65.1%). A

Card 1/2

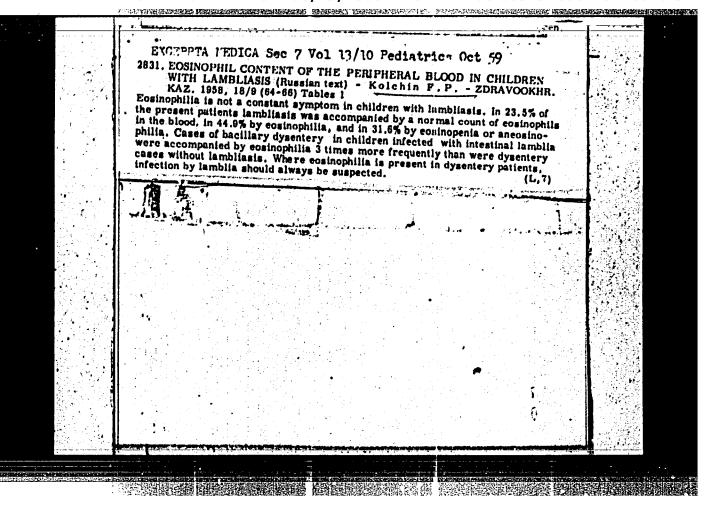
heavier incidence of dysentery and frequent transmission into a chronic form is noted

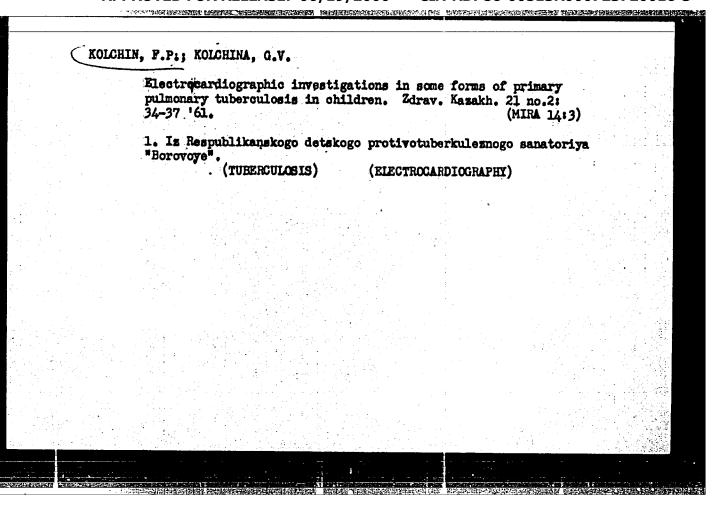
during the presence of the infection. AAPPROVED FOR MELETASEL 126/12/12/1909 and CAATROPES 100513R000723720016-

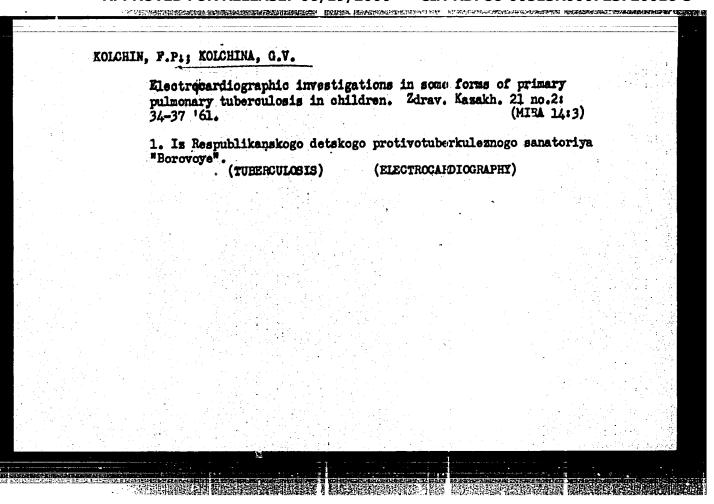
(quinacrine hydrochloride) treatment assists in a speedier and more stable cure of dysentery. An increase of L infection is observed in autumn. -- S. S. Rottenburg

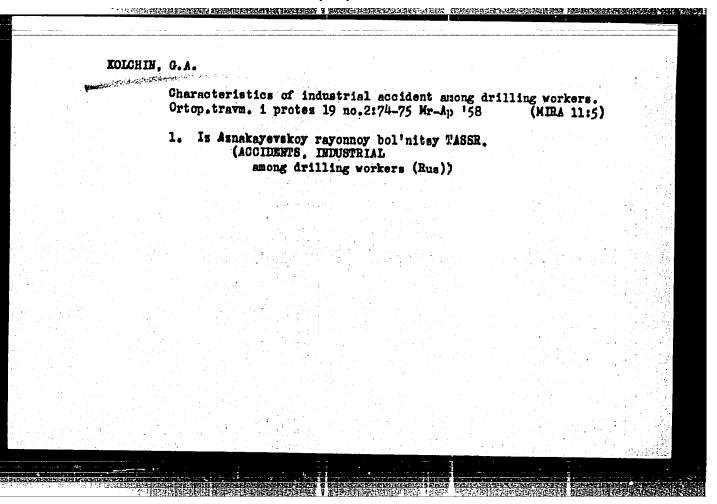
Card 2/2

KOLCH	IN, F.P.				
	Xanthomatosis	generalisata ossium.	Zdrav. Kazakh.	18 no. 2:40-43 (MIRA 13:8)	
	1. Is detskoy	obwyedinennoy bol'nit (LIPIDOSI	By No 1 g.Chimker		









GORSHKOV, N.I., kand. voyenno morskikh nauk, kapiten 1-go ranga; POL'SHAKOV, P.M., dotsent, kand. voyenno morsk. nauk, kapiten 1-go ranga; SOLOV'IEV, M.V., insh.-kapitan 2-go ranga; KOLCHIN. G.A., kapitan 3-go ranga; SEN', K.A., kapitan-leytenant

It should be improved and published anew. Mor. sbor. 48 no.12: 82-87 7 164. (MIRA 18:2)

SOV/128-59-11-6/24

AUTHORS:

Kolchin, I.F. and Ryzhenkov, V.V., Engineers

TITLE:

Improving Quality of Steel Castings

PERIODICAL: Liteynoye proizvodstvo, 1959, Nr 11, pp 12-14 (USSR)

ABSTRACT:

When casting steel, the Plant "Sibtyazhmash" uses a paste made of chromite against the formation of crust. The chrome ore originates from the Kimpersayskoye deposit; its contents are given in Table on page 12. The fireproof covering in the form of a paste is placed on the surface of the mold; the paste composition is 86-89% chromite, 2% dextrine and 9-12% fodder molasses. A sprayer is used for surfacing with paste. Since 1955, mixtures with liquid glass and the blowing of molds with carbon dioxide have been used at the plant. At present, over 70% of cores are fashioned from mixtures containing liquid glass. The molds are blown through a hollow model provided with outlet gas channels (Figs 1 and 2). The blowing lasts 2-5 minutes; carbon dioxide consumption is 15-18 kg per ton of castings. The

Card 1/2

507/128-59-11-6/24

Improving Quality of Steel Castings

author describes several types of pulleys manufactured for overhead cranes. All these pulleys are produced with the application of progressive methods mentioned above. There are 1 table, 7 diagrams and 5 photographs.

Card 2/2

Kolc.	Sovethebaniye po teorii liteynych protessaov. 5th, 1959	to of bry of soples	Modissity po tethnologii meshinostroyemiya. M. (Title page): B. B. Onlyayev, Doctor of Technical Sciences. Professor: M. of Publishing Ecus: O. M. Sobolevs: Tech. M.: A. F. Wrarver: Managing M.: for Literature on Not-Processed Metals: B. Ms. Goloviu, Engineer.	Publik: This book is intended for scientific and technical person- bal at scientific research institutes, Instories, and schools of higher education.	COVERIOR: The book sentains 19 reports read at a somfarence on the addressy of cartilings. The conference was extended by the contitues of the facility and spondared by the familiar makinovedently Aff SSM (Tastitute of the Sainces of Raddings of the Academy of Sciences USSM). The reports, presented by Institute specialities, science suckers, and production personnel, discuss the present sains of the problem of the acad. Fig. Of castitutes and settled of Saint Mail Soviet. [Gentry, L. 7e. [Radines], Easterion of Sand Molds.	 Direction A. H. (Definer). Effect of Thermal Distortion of the Modding Histories on the Accuracy of Cartings. In book of investigating the distortions and thermal stress in the molding mixtures was carried out under the supervise on the formal of P. P. Dang.	of Freedalon Castings in Shall Molds Fressed From a Materplase Mixture Materplase 186 Kolchin, I. F. [Engineer], and V. V. Fribantov [Engineer]	Freduction of Large Presiston Steel Catifuls by Uning Chem. 133 Rubtsov, H. H. (Doctor of Technical Sciences, Professor), and I. L. Zellicov (Engineer). Disensional Accuracy of Investment 160	Sorymov, Y. I. [Candidate of Technical Sciences]. Disentially Lateral Market and Surface Roughness of Castings Ortained by Various Nethods. O. A. Kantor, A. Ne. Danilor, A. I. Belymev. and Engineer V. B. Shall'san participated in making castings.	Bakalinity, H. Z. (Butineer), and B. B. Oulymper. Formation of the Contours of Gastings in Die Gasting	Kolemishanko, A. G. [Baginsor]. Assuracy of Castings Ob-	Quart 6/7	
	100 May												

KCLCHIN, I. F. and RYTHENKOV, V. V.

"An Investigation of the "uality of Castings with the Utilization of Various Moulding Paterials and Costins"

report presented at the 7th Conference on the Interaction of the Casting Mould and the Casting, sponsored by the Inst. of Mechanical Engineering, Acad. Scil USSR, 25-28 January 1961.

1.1500

8/123/61/000/015/029/032 A004/A101

AUTHORS:

Kolchin, I. F., Ryshenkov, V. V.

TITLE

Manufacturing high-precision large-size steel castings using chemically solidifying mixtures

PERIODICAL: Referativnyy shurnal, Mashinostroyeniye, no. 15, 1961; 16, abstract 150112 (V sb. "Tochnost' otlivok". Moscow, Mashgis, 1960, 153-159)

The authors give an account of the production practice of the foundry shop of the "Sibtyazhmash" Plant in the manufacture of large-size steel precision castings weighing from 500 kg to 25-30 tons, using chemically solidifying mixtures. Some particular examples are presented which characterize the efficiency of using these mixtures to increase the finish and accuracy and improve the casting quality. There are 4 figures.

[Abstracter's note: Complete translation]

Card 1/1

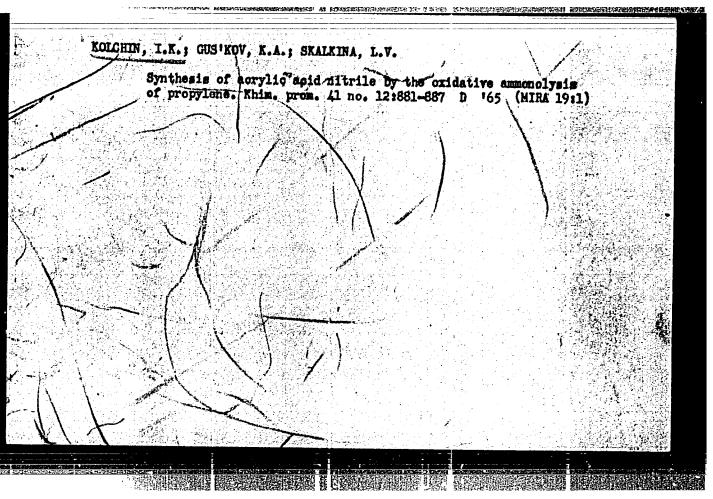
MIKHAYLEHID, Yu.Ya.; LEHEDEN, N.N.; KOLCHIN, I.K.

Determination of the isomers of cymene and tert.butyltoluene by infrared absorption spectra. Zhur.anal.khim. 15 no.2:159-162 (MIRA 13:7)

1. Moskovskiy khimite tekhnologicheskiy institut.im. D.I. Mendeleyeva. (Toluene—Spectra)

(Toluene—Spectra)

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ACC NR. AP	7001365	(A)	SOURCE CODE:	UR/0413/66/00	0/021/0032/003	2
INVENTOR: Gus Kovalev, N.	'kov, A. K.;] I.; Lisunova,	Bobkov, S. S.; M. B.; Sokolo	Gribov, A. M.; va, V. A.; Kuzni	Kolchin, I. K.	; Zhakov, V. A. Butusova, V. A.	• •
ORG: none			•			
TITLE: Prep	arative method	for a cataly	st. Class 12, N	io. 187738		
SOURCE: Izol	breteniya, pro	myshlennyye o	braztsy, tovarny	ye znaki, no.	21, 1966, 32	
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A carrier wit and heating t	the synthesis the improved st to 1200—1250	or acrylonity rength and hea a mixture of l	en issued for a rile by oxidative at resistance is Kaolin and a-aluybdenum, and pho	e ammonolysis prepared by mo	of propylene. olding, drying	
SUB CODE: 07	// SUBM DATE:	01Apr64/. AT	TO PRESS: 5109			
Card 1/1			UDC: 66.094.	373		
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KOLCHIN, I.K.; GAL'PERIN, Ye.L.; BOBKOV, S.S.; MARCOLIS, L.Ya.

Catalytic oxidation and oxidative ammonolysis of propylene on bismuth tungstate. Neftekhimila 5 no.1:111-127 Ja-F '65.

(MIRA 18:5)

8/075/60/015/004/023/030/XX B020/B064

AUTHORS:

Mikhaylenko, Yu. Ya., Lebedev, N. N. Kolchin, I. K.

and Kutyrina, Ye. G.

TITLE:

Analysis of Multicomponent Mixtures From Infrared Absorption Spectra? Information 2. Determination of the Isomers of Chloro Cumenes, (Tertiary Butyl Benzenes,

and Chloro Diphenyl Methanes

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4,

PP 495 - 499

The analysis is described in detail in the previous publi-TEXT: cation of this series (Ref. 1). The spectrophotometer NKC-11 (IKS-11) was used with bulbs of sylvine 0.09 cm thick and with specially purified carbon disulfide as a solvent (Ref. 2). Calibration was made by determining the extinction coefficients of every aromatic compound for every wavelength used. The o-. m-, and p-isomers of chloro cumene, tertiary butyl chloro benzene, and chloro diphenyl methane

Card 1/4

CIA-RDP86-00513R000723720016-3" APPROVED FOR RELEASE: 06/19/2000

Analysis of Multicomponent Mixtures From Infrared Absorption Spectra. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

B/075/60/015/004/023/030/XX B020/B064

were used for calibration. Chloro cumene and butyl chloro benzene were obtained by the Grignard reaction from the respective bromochloro benzene isomer and alkyl bromide, using n-heptane instead of absolute ether as a solvent (Ref. 3). The chloro diphenyl methane isomers resulted from the condensation of the respective chloro benzyl chloride with benzene in the presence of AlCl₃. The constants of the compounds are given in Table 1. First, all compounds were qualitatively analyzed to determine the absorption maxima of the isomers. To find the absorption bands of the individual isomers, the data published on disubstituted benzene derivatives were used, i.e., the band at 770 - 740 cm⁻¹ is characteristic of the crtho-disubstituted derivatives, the bands at 800 - 770 cm⁻¹ and 710 - 690 cm⁻¹ of the meta-disubstituted derivatives, and the band at 833 - 780 cm⁻¹ of

the para-disubstituted derivatives (Refs. 8, 9). Figs. 1, 2, and 3

Card 2/4

Analysis of Multicomponent Mixtures From Infrared Absorption Spectra. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary

S/075/60/015/004/023/030/XX B020/B064

Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

show the absorption spectra of the chloro-alkyl benzene isomers studied. The absorption band lying in the range for p-, m-, and odisubstituted benzenes are obtained on the curves. The wavelengths most convenient for determining the isomers are given. Moreover, the absorption curves show absorption maxima at 1037 and 1100 cm-1, which may be due to the vibrations of the benzene cycle (Ref. 9). The optical density of each compound in CS₂ solution was measured, and the extinction coefficients were calculated for each wavelength. Tables 2, 3, and 4 give the results. Since the Lambert - Beer law does not hold for the solutions examined, it was necessary to employ the method of successive approximations in determining the composition of mixtures just as in Ref. 1. The results of an analysis of artificial mixtures showed that the mean error is approximately 4%. There are 3 figures, 4 tables, and 10 references: 4 Soviet, 2 German,

Card 3/4

CIA-RDP86-00513R000723720016-3 "APPROVED FOR RELEASE: 06/19/2000

Analysis of Multicomponent Mixtures From S/075/60/015/004/023/030/XX B020/B064 Infrared Absorption Spectra. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut im.

D. I. Mendeleyeva

(Moscow Institute of Chemical Technology imeni

D. I. Mendeleyev

SUBMITTED:

September 13, 1958

Card 4/4

KCLCHIN, I.K.; ROEKOV, S.S.; MARGOLIS, i.Yo.

Catalytic exidation and ammencipate of propylene on biamuth molybdates. Neftekhimia 4 no.21301-307 Nu-2p164 (MIRA 1718)

1. Institut khimicheskoy fiziki an Sacr.

KOLCHIN, I.K.; GAL'PERIN, Ye.L.; BOBKOV, S.S.; MARGOLIS, L.Ya.

Bismuth-molybdenum-phosphorus catalysts of exidation and of exidative ammonolysis of propylene. Kin.i kat. 6 no.5:878-883 S-0 '65. (MIRA 18:11)

L 19646-65 EFF(c)/EFF(n)-2/EFF/RFT(n)/SF(h)/SF(h)/SF(t) = c-1/Ft-1/Fn-h - IFF(n)/SF(

ACCESSION NR: AP4044812

3MOO_ (monoclinic lattic, a = 7.85A, b = 11.70A, c = 12.25A, = 116020). The molybdenum oxide did not form solid solutions at room Orig. art. has: \tautettables.

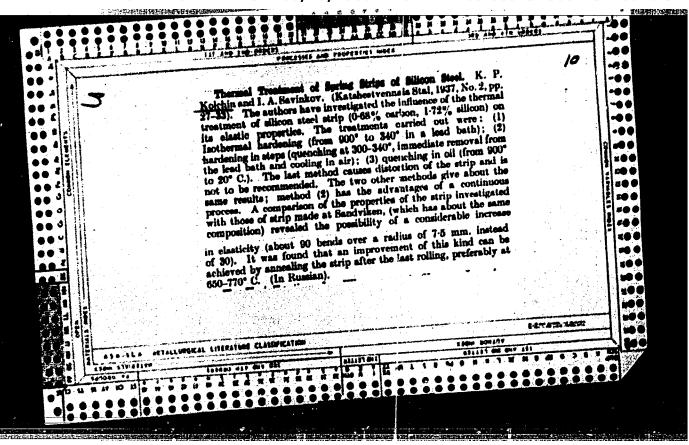
ASSOCIATION: None

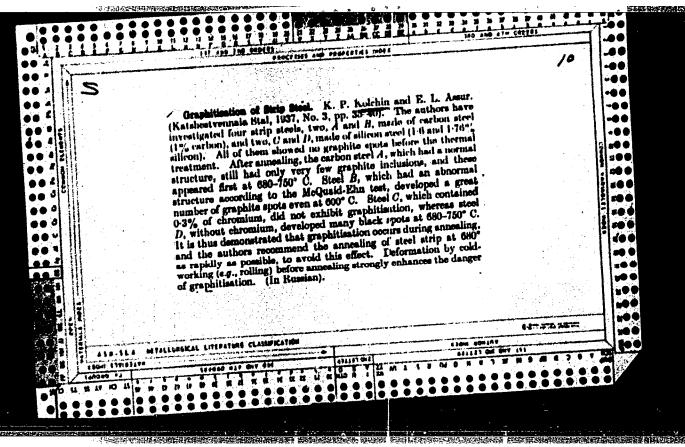
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KOLCHIN, K. P.

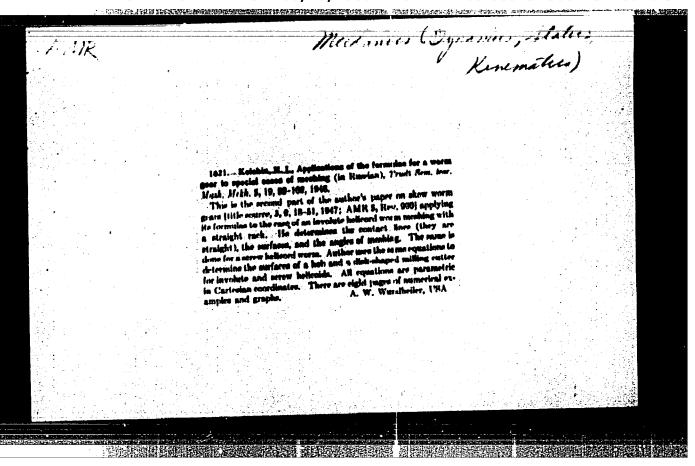
Kolchin, K. P. - "The problem of selecting steel for spring bands," Sbornik nauch. -tekhn. rabot (Vsesoyuz. nauch. inzh.-tekhn. o-vo metallurgov, Leningr. otd-miye), Issue 1, 1949, p. 162-78, - Bibliog: 6 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nyich Statey, No. 25, 1949).

REASEOV, 8., kand.ekonom.mauk; KOLGHIN, L., insh.

Refficient use of transportation. Mias.ind.SSSR 31 no.2:43-44
(MIA 13:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlemoeti.
(Cattle—Transportation)



KOICHIN, N. I.

Nechetkaya postanovka aktual'nogo voprosa. Po povosu stat'i M. S. Komarova ((Nekotoryye voprosy metodiki prepodavaniya kursa)) ((Detali mashin)) v zhurn. ((Vestnik vyssh. shkoly)), 1948, No. 6. S Primech. RED., s. 21
Vestnik vyssh. shkoly, 1948, No. 6, s. 18-20

SO: Letopás Zhurnal Statsy, No. 30, Moscow, 1948

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KOLCHIN, N. I.

Mekhanika mashin. Moskva, Mashgiz, 1948+ diagrs.

Contents. Ch. 1. Graficheskaia kinematika mekhanizmov mashin. Elementy struktury mekhanizmov, metody kinematicheskogo issledovaniia mekhanizmov mashin: 1948 - Ch. 2. Kinetostatika i dinamika mashin: 1948 - Ch. 4. Trenie v mashinakh. 1949.

Mechanics applied to machines. v. l. Graphic kinematics of mechanisms. Elements of mechanical structure, kinematic study of mechanisms. v. 2. Kinetostatics and dynamics of machines. v. 4. Friction in machines.

DLC: TJ170.K68 (w. :v1, v.4)

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KOLCHIN, N. I.

Analiticheskii raschet ploskikh i prostanstvemnykh zatseplenii. S prilozheniem k profilirovaniiu rezhushchego instrumenta i rashetu pogreshnostei v zatsepleniiakh. Moskva, Mashgiz, 1949. 209 p. diagrs.

Bibliography: p. 207-2087.

Analytical calculation of plane and spatial gearing. With a supplement of the design of cutting tools and calculations of errors in gearing.

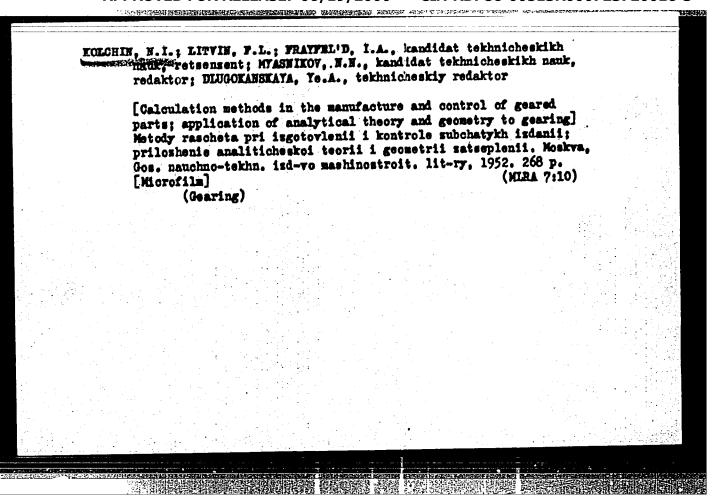
DLC: TJ185.K6

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38070. KOLCHIN, N. I., LITVIN, F. L., AND SEMEMOV, M. V.

Doktor Tekhnncheskikh nauk professor khrisane fedorovich ketov.
[Spetsialist v oblastimashinostroeniya, 1887-1948]. Trudy seminara po teorii mashin i mekhanizmov (Akad. Nauk SSSR, in-t, mashinovedeni'ya) T, VIII, vyp. 29, 1949, S.7-11, s. portr.

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		cs of machines). vol 3,	Leningrad, Mashgiz	, 1952. 196 p.	
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Gearing Formulas for determining the thickness of teeth of conical cog wheels by means of balls. Trudy Sem. teor. mash., 11, No. 44, 1952.
Formulas for determining the thickness of teeth of conical cog wheels by means of balls. Trudy Sem. teor. mash., 11, No. 44, 1952.
9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.